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Technical Data Sheet Perlite Filter Aid

Updated August 2016

CHEMICAL ANALYSIS		PHYSICAL PROPERTIES	
Silica	74.0%	Specific Gravity (g/ml)	0.055-0.30
Aluminium Oxide	14.0%	Colour	Off white
Ferric Oxide	1.0%	Floats	As Noted
Calcium Oxide	1.3%	Fusion Point (Deg.C)	1260~1340
Magnesium Oxide	0.3%	Softening Point (Deg.C)	871~1093
Sodium Oxide	3.0%	<p><i>The figures quoted in this data sheet are, to the best of our knowledge, representative of the product. Natural products do vary, so these figures are approximations for guidance only. As conditions of use are beyond our control, no liability is accepted for any loss or damage sustained arising from the use of this information or any products. Because of ongoing developments, the product parameters may be changed without notice.</i></p>	
Potassium Oxide	4.0%		
Titanium Oxide	0.1%		
Heavy Metals	Trace		
Sulphate	Trace		
Moisture Content	0.3%		
Organic Content	<0.1%		
Thermal Conductivity	0.0361 @ 0c		

GRADE	AP10	AP20	AP40	AP60	AP70	AP80
Flow Rate (Sec)	600~1200	100~230	50~80	25~35	15~25	7~15
Bulk Density (kg/m ³)	200~230	125~160	120~150	110~145	110~140	100~135
Wet Cake Density (kg/m ³)	300~360	250~336	210~290	200~280	180~250	170~230
Permeability (Darcy)	0.04~0.08	0.22~0.52	0.64~1.02	1.46~2.04	2.04~3.41	3.45~7.38
Floats <%	< 0.5	< 2	< 6	<6	< 8	< 8
Average Particle Size (um)	25	43	51	78	85	98
Medium Particle Size (um)	10	28	34	55	68	84
90% of particles are less than (um)	40	87	106	162	166	180

TEST METHODS
Chemicals by XRF
Moisture by drying 110 Deg.c for 1.5hrs
Floats by PI 300-77
Organic Content - Weight of matter soluble in carbon tetrachloride
Specific Gravity by water immersion
PSD by sieve on BS410 sieves / Laser diffraction - Particle size analyzer
Loose Bulk Density by PI200-77
Thermal Conductivity per ASTM C518-98
Compacted Density as per PI 201-77

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